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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/066,000	12/09/2002	John C. Tsai	60617.301401	6676	
32112	7590 11/17/2004	EXAMINER			
INTELLECTUAL PROPERTY LAW OFFICE 1901 S. BASCOM AVENUE, SUITE 660			LYONS, M	LYONS, MICHAEL A	
	CAMPBELL, CA 95008		ART UNIT	PAPER NUMBER	
			2877		

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		Application No.	Applicant(s)			
	Office Addison Commen	10/066,000	TSAI ET AL.			
•	Office Action Summary	Examiner	Art Unit			
		Michael A. Lyons	2877			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
A SH THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) do will apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	timely filed  ays will be considered timely.  m the mailing date of this communication.  IED (35 U.S.C. § 133).			
Status						
1)⊠ 2a)□ 3)□						
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-14 is/are pending in the application.  4a) Of the above claim(s) is/are withdray  Claim(s) is/are allowed.  Claim(s) 1-14 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.				
Applicat	ion Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>09 December 2002</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a) accepted or b) object drawing(s) be held in abeyance. So ion is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority (	under 35 U.S.C. § 119		•			
a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	ation No ved in this National Stage			
2)  Notice (3)  Information	ce of References Cited (PTO-892) V ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	4) Interview Summan Paper No(s)/Mail I S) Notice of Informal 6) Other:				

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## **DETAILED ACTION**

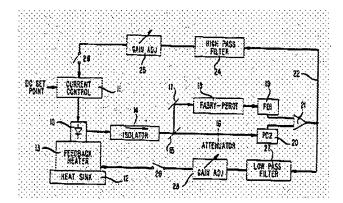
## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 6, 8, and 10-14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Brown et al (4,583,228).



Regarding claim 1, Brown (Fig. 1) discloses a device for stabilizing and locking the frequency of a light beam from light source 10 comprising a first beam splitter 15 to separate a portion of the light as a sample beam, a confocal Fabry-Perot etalon 18 to receive the sample beam and generate a filterization beam, a photodetector 19 to receive this beam. This is then coupled to differential amplifier 21 that provides a signal to a feedback loop that ends at current control 11 to control the output of the laser based on the received signals.

Regarding claim 6, since Brown discloses the claimed apparatus in its entirety, the claimed method of the instant application flows from the use of the Brown apparatus.

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Regarding claim 12, the device disclosed in Figure 1 discloses the use of a confocal etalon 18.

As for claims 2, 3, 10, 11, 13, and 14, the confocal Fabry-Perot etalon of Brown includes "any interferometer which includes a pair of spaced, flat or *curved*, parallel mirrors so that interference fringes are produced by multiple reflection of light between the mirrors" (Col. 3, lines 20-25).

As for claim 8, Brown discloses current control 11.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 4-5, 7, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown et al (4,583,228).

As for claim 4, Brown fails to explicitly disclose the use of a system link and a processor. However, Brown discloses the use of a differential amplifier 21, high pass filter 24, and a gain adjustment element 25 to process the signal for current control 11 in an equivalent manner to a stand alone processor, while a system link between the elements is inherent to the device. Therefore, because the combined elements of Brown perform an equivalent function to a stand alone processor with a system link, it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute a processor for the multiple elements of Brown.

As for claim 5, Brown discloses a single beam splitter 15 that splits off a normalization beam from the input beam, and a normalization photodetector 20 that passes its signal on to differential amplifier 21.

Brown fails to disclose, however, a second beam splitter, links between elements, and a processor.

As for the second beam splitter, Brown does disclose a single beamsplitter 15 that serves to split the incoming beam into a measurement and reference beam. It would have been obvious to one having ordinary skill in the art at the time the invention was made to add a second beamsplitter to the device to perform the operation of a single beamsplitter, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8.

As for the links and the processor, Brown discloses the use of a differential amplifier 21, high pass filter 24, and a gain adjustment element 25 to process the signal for current control 11 in an equivalent manner to a stand alone processor, while a system link between the elements is inherent to the device. Therefore, because the combined elements of Brown perform an

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equivalent function to a stand alone processor with a system link, it would have been obvious to

one of ordinary skill in the art at the time the invention was made to substitute a processor for the

multiple elements of Brown.

As for claims 7 and 9, since Brown discloses the claimed apparatus with its obvious

modifications as discussed above with regard to claims 4 and 5, the claimed method of the

instant application flows from the use of the modified Brown apparatus.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael A. Lyons whose telephone number is 571-272-2420.

The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Gregory J Toatley can be reached on 571-272-2800 ext. 77. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MAL

November 10, 2004

Samuel A. Turner Primary Examiner Page 5